



Job Title	Research Fellow in Chemical Engineering
School/Department	Department of Chemical and Environmental Engineering
Job Family and Level	UNNC Scale A Level 4
Contract Status/ Appointment Duration	This post is available from 6 th January 2025 and will initially be offered on a fixed-term contract with outsourced company for three years with a probation of 6 months.
Location	University of Nottingham Ningbo China
Hours of Work	Regular working hours
Responsible to	Dr Zheng Wang, Principal Investigator (PI) of the Research

Purpose of role

The purpose of this role will be to assist and support the principal investigator/Zheng Wang's research team in carrying out academic research which include literature searches, developing questionnaires, conducting surveys, carrying out analyses and tests and drafting of reports.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	To undertake supervised research which may include planning, preparing, setting up, conducting and recording the outcome of experiments and fieldwork on the following projects: <ul style="list-style-type: none">• Polybutylene Terephthalate polymerization from Terephthalic acid (TPA) and 1,4-Butanediol (BDO).• Synthesis of tetramethyl-1,3-cyclobutanediol (CBDO) from isobutyric acid (IBA);• Large scale production of trans-cyclohexanedimethanol (CHDM);	30%
2	To conduct literature and database searches and carry out analyses and/or tests and/or critical evaluations using specified and agreed techniques, approaches and/or models and document findings.	30%
3	To contribute to the production of research reports and publications	10%
5	To continue to develop skills in and knowledge of research methods and techniques and contribute to the development polymer processing.	10%
6	To communicate information and ideas to students and advise and assist other staff/students with in area of expertise.	5%



UK CHINA MALAYSIA		
9	To participate in training and staff development events as trainer or trainee as appropriate.	5%
10	To maintain appropriate professional development, expertise and awareness.	5%
11	To undertake other tasks and responsibilities as may reasonably be required.	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. ▪ Developing research skills. ▪ Ability to contribute to method improvement. ▪ Analytical ability to facilitate conceptual thinking, innovation and creativity. ▪ Ability to build relationships and collaborate with others, internally and externally. 	<ul style="list-style-type: none"> ▪ Demonstrates a desire to further develop skills and knowledge of research methods and techniques. ▪ Experience with Polybutylene Terephthalate polymerization.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Evidence of sufficient breadth or depth of research methodologies and techniques to work in research area of chemical engineering. 	<ul style="list-style-type: none"> ▪ Some practical experience of catalytical reaction. ▪ Evidence in use of research methodologies and techniques to work within chemical engineering discipline. ▪ Experience in hydrogenation and purification process via chemical engineering approaches.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD's degree or equivalent in Chemistry, Chemical Engineering, Environmental Engineering Or Proven track record with extensive work experience in a relevant technical or scientific role. 	<ul style="list-style-type: none"> ▪ Research fellow experience in relevant subject area.
Statutory, legal or special requirements	<ul style="list-style-type: none"> ▪ An understanding of regulations and procedure governing laboratory work (including Home Department and Health and Safety) and implications of non-compliance of other staff. 	



Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- | | |
|---------------------------|--|
| Valuing people | Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported. |
| Taking ownership | Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations. |
| Forward thinking | Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process. |
| Professional pride | Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices. |
| Always inclusive | Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area. |

Key relationships with others

